

Rivanna Environmental Management System Alliance (REMSA) Environmental Initiatives and Accomplishments To Date – October 2006

Electronics Recycling

Electronic waste has been collected from Charlottesville City Schools and municipal operations, Albemarle County Public Schools and municipal operations, as well as from the general public. REMSA partners have initiated e-waste collection and recycling events that have resulted in **178,873 pounds**, or **over 89 tons**, of electronic waste being diverted from landfills. All of this material has been reused, refurbished, or recycled. One event, coordinated by Rivanna Solid Waste Authority, University of Virginia, and Crutchfield proved to be the largest single day public collection of e-waste in Virginia. Over 33 tons were collected from the public, who paid a small fee per item, and recycled.

LESS OF THIS



MORE OF THIS



School Chemicals Removal

Albemarle County Public Schools' and Charlottesville City Schools' laboratory chemicals were inventoried by an EPA and DEQ-licensed chemical distributor of laboratory reagents. As a result, **1027 lbs** of unneeded, outdated, and/or undesirable chemicals were removed from the school's laboratories. Most of the chemicals were then repackaged and resold as reagents, or resold in their original form by the distributor. Most were effectively reused or recycled rather than going to another facility for disposal or incineration, which lowered the cost to the partners. This resulted in estimated cost savings of over **\$32,000** (versus traditional disposal costs) and safer school environments for students and staff.



B20 Biodiesel Use

REMSA took on the biodiesel initiative because we wanted to reduce harmful air emissions from our diesel powered vehicles, reduce our dependence on foreign oil, support Virginia's farmers and economy, and use a renewable, alternative fuel. At UVA, all diesel vehicles currently run on B20; this includes the entire UTS bus fleet and Facilities Management trucks. A portion of the City of Charlottesville's CTS public transportation buses and a representative sample of the diesel fleet are currently running on B20 as a pilot project; plans to switch the entire diesel fleet over to B20 in the near future are online. Albemarle County Schools ran a successful B20 pilot project on several buses to assess its applicability and effectiveness. As of October 2006, the partners have used a total of **223,600 gallons of B20 biodiesel**. This equates to the **displacement of 44,720 gallons of petroleum diesel**.



Hybrid-Electric Vehicles

Hybrid-electric vehicles vastly reduce harmful air emissions and greatly improve fuel economy. The partnership has helped guide our members through the research and procurement process. Having hybrids in partner's fleets has given other partners leverage to promote including or expanding the use of hybrids in their own fleets. REMSA partners want to serve as positive examples to the community, promoting this cleaner vehicle technology through leadership by example. The REMSA partners have purchased a total of **23 hybrid-electric vehicles** as of October 2006.

